

Fig. 1

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

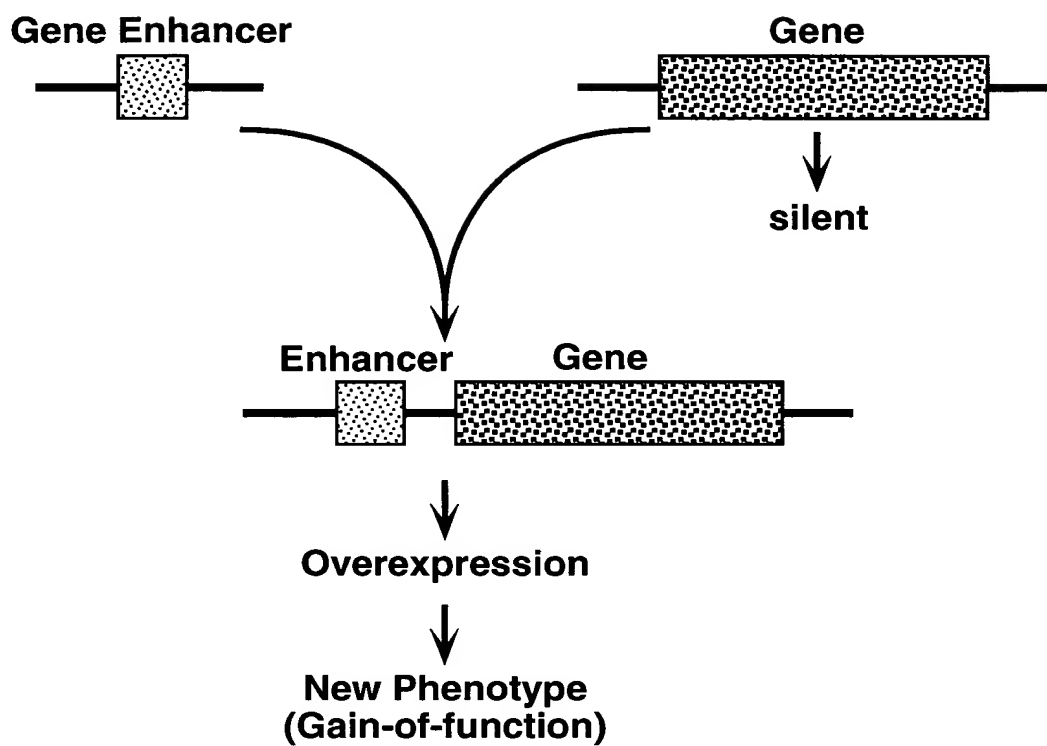


Fig. 2

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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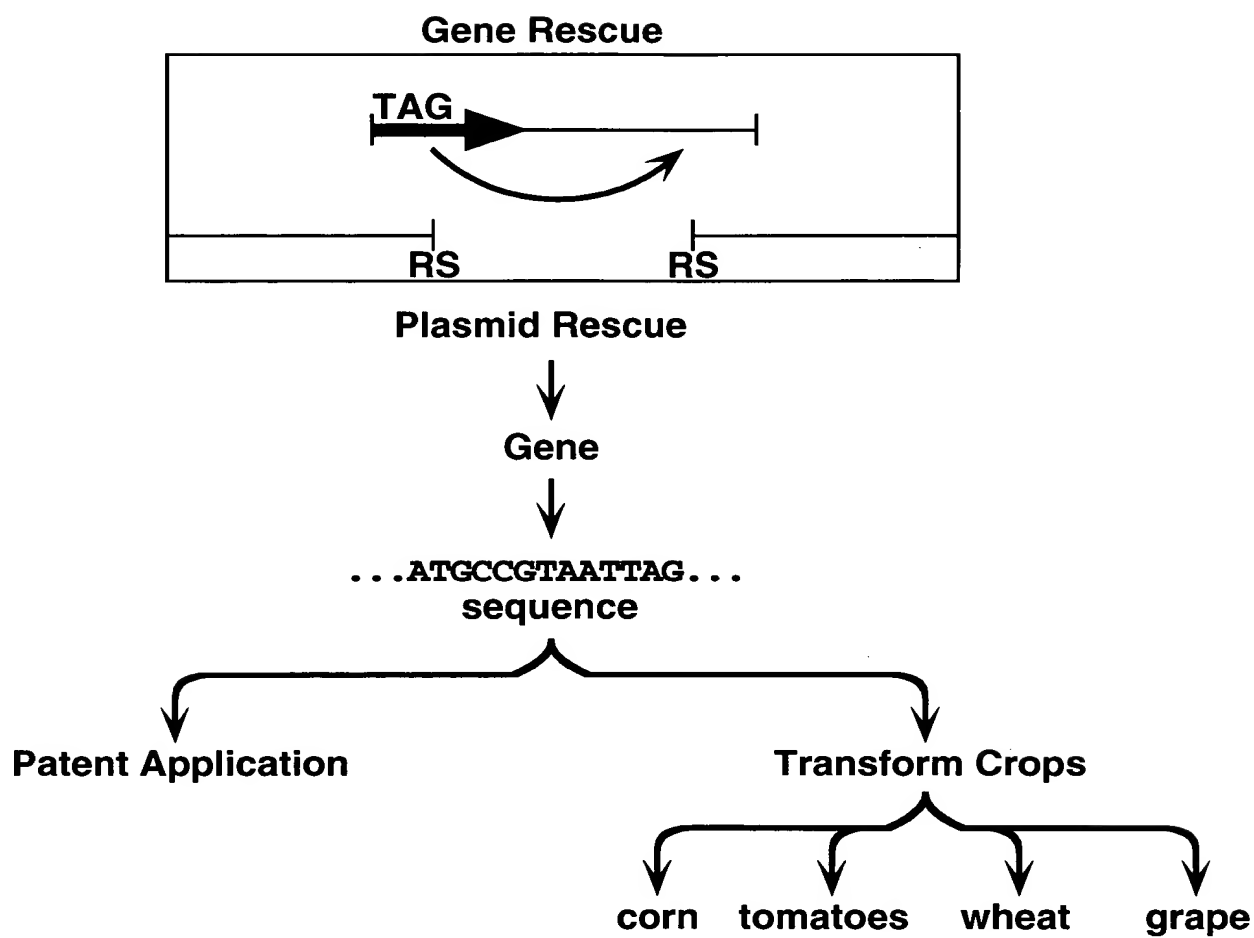
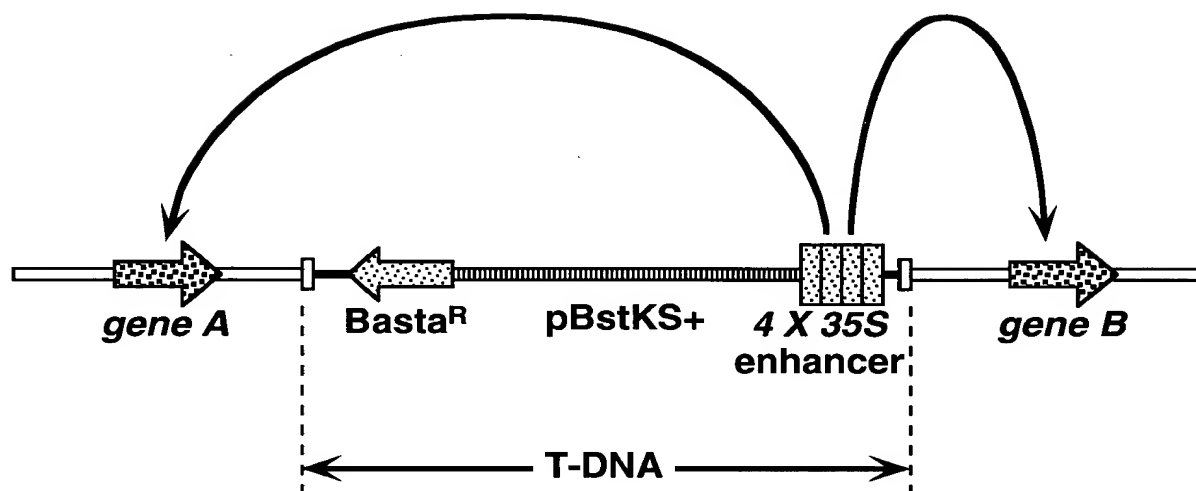


Fig. 3



screened 6/98: 25,000

confirmed dominant mutants:

flowering-time: 4
morphology: 25

500 plants → 25,000 independent transformants → 2-5 novel genes/trait screened
1,000 plants → 20,000 independent transformants → 4-10 novel genes/trait screened/quarter
8,000 plants → 200,000 independent transformants → 16-40 novel genes/trait screened/year

Fig. 4

APPROVED	O.G. FIG.	
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CAACATGGTGGAGCACGACACTCTCGTCTACTCCAAGAATATCAAAGATAC
AGTCTCAGAAGACCAGAGGGCTATTGAGACTTTTCAACAAAGGGTAATATC
GGGAAACCTCCTCGGATTCCATTGCCCAGCTATCTGTCACTTCATCGAAAG
GACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGG
AAAGGCTATCGTTCAAGATGCCTCTACCGACAGTGGTCCCAAAGATGGACC
CCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTCCAACCACGTCTTC
AAAGCAAGTGGATTGATGT**GATATC**TAGATCCC
CAACATGGTGGAGCACGACACTCTCGTCTACTCCAAGAATATCAAAGATAC
AGTCTCAGAAGACCAGAGGGCTATTGAGACTTTTCAACAAAGGGTAATATC
GGGAAACCTCCTCGGATTCCATTGCCCAGCTATCTGTCACTTCATCGAAAG
GACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGG
AAAGGCTATCGTTCAAGATGCCTCTACCGACAGTGGTCCCAAAGATGGACC
CCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTCCAACCACGTCTTC
AAAGCAAGTGGATTGATGT**GATATC**TAGATCCC
CAACATGGTGGAGCACGACACTCTCGTCTACTCCAAGAATATCAAAGATAC
AGTCTCAGAAGACCAGAGGGCTATTGAGACTTTTCAACAAAGGGTAATATC
GGGAAACCTCCTCGGATTCCATTGCCCAGCTATCTGTCACTTCATCGAAAG
GACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGG
AAAGGCTATCGTTCAAGATGCCTCTACCGACAGTGGTCCCAAAGATGGACC
CCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTCCAACCACGTCTTC
AAAGCAAGTGGATTGATGT**GATATC**TAGATCCC
CAACATGGTGGAGCACGACACTCTCGTCTACTCCAAGAATATCAAAGATAC
AGTCTCAGAAGACCAGAGGGCTATTGAGACTTTTCAACAAAGGGTAATATC
GGGAAACCTCCTCGGATTCCATTGCCCAGCTATCTGTCACTTCATCGAAAG
GACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGG
AAAGGCTATCGTTCAAGATGCCTCTACCGACAGTGGTCCCAAAGATGGACC
CCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTCCAACCACGTCTTC
AAAGCAAGTGGATTGATGT**GATATC**TAGATCCGAAACT

Fig. 5

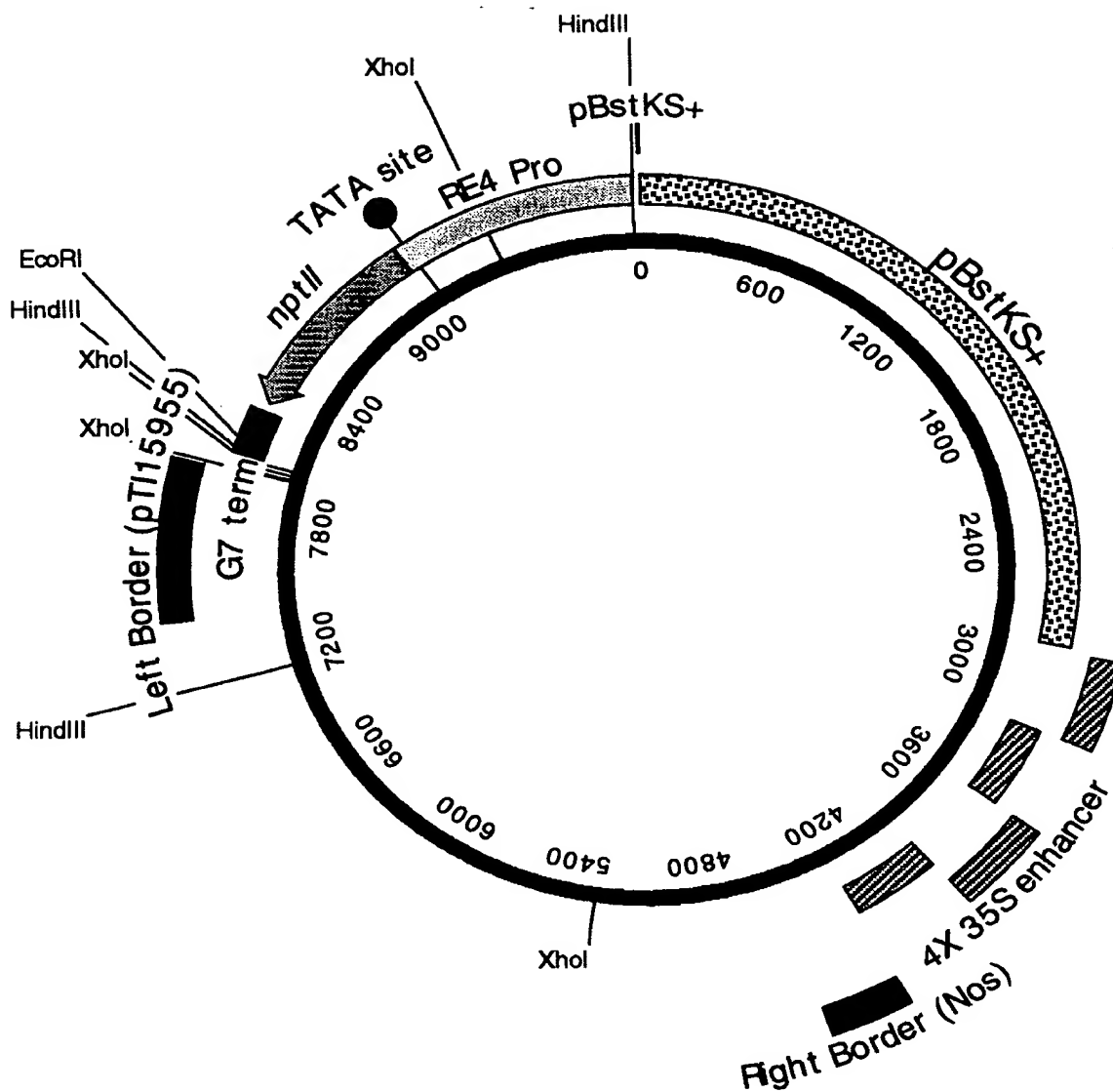


Fig. 6

APPROVED	O.G. FIG.	
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Fig. 7A



Fig. 7B

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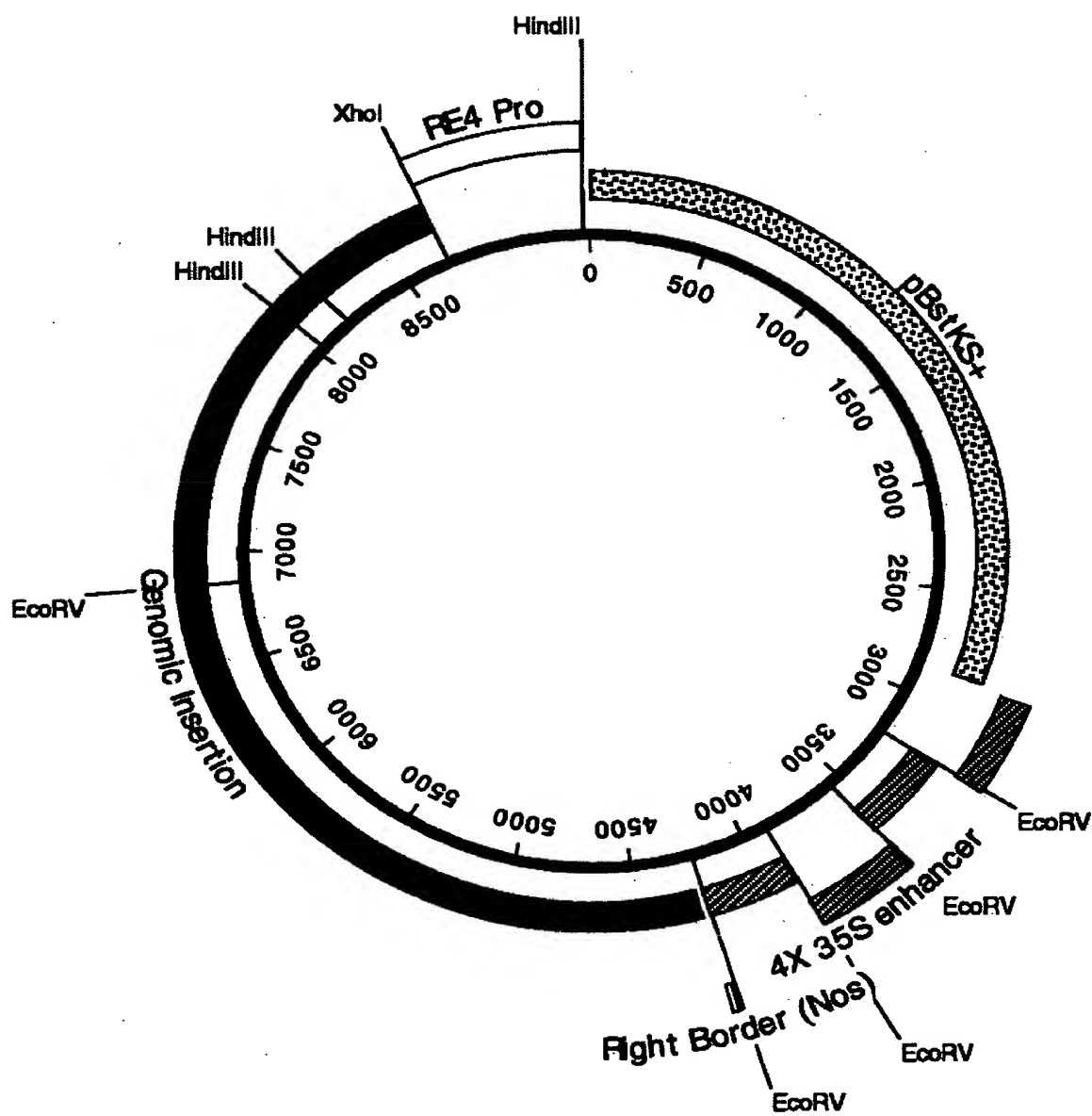


Fig. 8A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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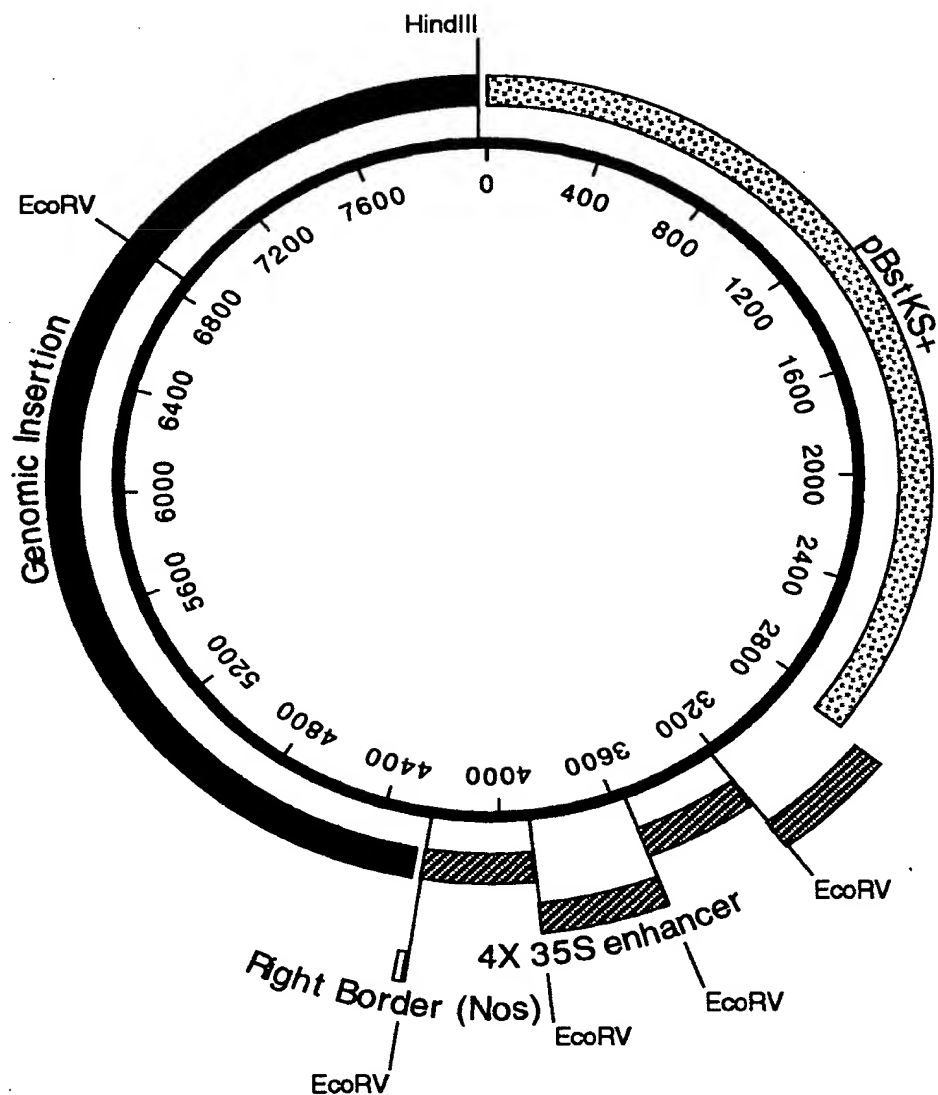


Fig. 8B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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GTCGTCAGTAATAATGTTTTCTGGTGTATCGAACATCAGAGAAAGAAGTTAAAATTAACTG
 TATCAACACGGTCTACAACTTTGCATTTCTCATGTGAAAGGCGTCAAAGAGGGGAAGAAGAA
 GAGAAAGATTAACGAAAAGACATCAAACGTTACCTTTTGAGCAGGTCCATTTTCTTCTTAA
 TGCCAGCAGCACCATCCTCCTTCAACAACCTGCTTAATCTGCATGAAAGGCCACAAGTTAAAAG
 ACTAGCAAATGAGGTGCAACTACATTGCTCGGACTCTATAAAAATGTTGTTGCCCCCTGTGTCTG
 GATCCTACTTTTGGAGGATCTGACATGCTCCAAATTCCAACCTAATCTTCACGGAAGTCCTAT
 TACCCCTGAACGTTTTTTTTTATATATTAGGTACCCCTTATAGGCTAATGTGTCCACAAACGT
 GAACTCACCTCCGTGAGGGATGTAAGAACCATAAATGTGTACATCTGGAGTCCAAATAAGC
 TTCCAATGTGCATTTTATTTGGTTCTTACGCGCTTCACGGAGGTGAGTTCACGCTTGTGGACA
 CACCAGCCTATAAGGATGAACAAATATTAAGAAAGAAAGTTTCCGGGGTAATAGGACTCCCGT
 AAAGATTTTGCAGTTGGAAATACGGCTAAAGCTTGAGGGTGCATTTCGACCATTTTCTCAAGGA
 TATTAGGAACAATAAGGGACTTCAACATTGGCCCAACCTATTATATTATTTCTTTTTTATGAC
 TGAGAAGTTGGACTGAAGCCACCCTTCAGGTCATTTTCCACTTAAATACTAGACTTTGTTCGT
 TCACTTGGCATTGGGATCAAACCTTGTGACCGAAAAGACACAAGTCCCTTTCAATCTGGGTTAA
 TTTATTTTTTCTGTTTCTGTCTGCCCACCTTTTTTGAATATTATCTTTTTATTAACTAAAAAA
 ATATCAAATAAGTTTGGCAAACACAATAGGAAATATTCTAGTTTTACATTTGAGGATAACATC
 ACTTTTTATTTCGGTAATATGACATGAGATGAGCTTAAATGGAGAAATAGCGTCAGTTATGATC
 CATATAGACAAACCAACTTCTCTGGACTAAGACGTAGTTATTGTAGTAAAGATCACAAACAGG
 ACCTGGGTAGAGAGACTGATCCTTCAACAACCTAATTTGATTAAGTTGGAGAACTTCAAACT
 TATGTCTATTCACTTAAATTTTAGATAAGATCTTTAACCACACTAGAACTCAGCAAACCTGAT
 TCTACTTATTCAGCATGGTCAGAGTAAGTAGCTAAGGCCCTTACATCAACTTTGATTGTATTCT
 TTTTACCTACAACTATAGAGTGTGAAAGAACTACATTGAGCACATAGTATGCAAAATTTCT
 TTCACAGATCCGAGTCAAATATTGCTTATTAAGGGATTAAAAATCGACTATTTTTTAAATGAG
 TCGAATTGACTTAGTAATAATTATTTATTAACATATTTAGGATTCCAGGAGAGATTGT
 TTTACCTCATTCCTGGACGTCCTTGTGTAAGGAGCAGGTTACTCGGGTAGAATAGCATGAT
 CATCTGACATATGGACTGATGGTCAGTCCGTGTGGACCATTACGCCCAATCCATGTATATAAT
 GTTGTTTATTATGCTTTACTTCTTTTTTTAGACATAGGGTCATCGATACAATCATTTTTTCTA
 GGCAGATGTATCAAACCTAGAAGAAAAGGTGAATGTTTACTTTTTTATATGTATTTTAAATACTT
 GATCAAACATCTATGGTATAGATTCTGAATGAAACATGCCTACCTTAATCAGTTCCTTTTGG
 CAGGCGGAAGATATCTTTTCTCGTCATCATATCTTTTTCTCCACACTGCAGATTCGTCCATT
 GCTTCTCTACTGGCAAGATCGAACTGTCTCCTACAAGAATCCAAGAAGAATATACTTAGCCAA
 GCATTAAATGGCATCGAACATATGTTTGATTGCCATCTTTAGACTCGTGCTGGGAATGTGGAA
 TGATTAAAAACCTTGGTCCTGAAAACAAAGTTTCGTATTTATTTGAATCACTACTCAAGTTGG
 AAGCGGTTTTGCATCGGCAACTTAGAGAAAACAGTGCAATGTTTTATTAACATTCTAGTAGAA
 ACTAGTTCTAATAGTTTGATATATGCCAATAAAAACCACTCTATAGTCAAACCCCATGTCAA
 GTCACCTATTAAAGCATTTACAATAGAGTTCACATGATTTTACCTGCTAAAGAAAATAAACA
 TTGGGCCTAACTCAACTTCAAAGCTAGTTTATGCAATGAGGATTGCCCAAACCATATAAAG
 AGACTAATTGAACTATCCCCCATATATGTGGGACTTCCAACACTCCCGCATGCCTAGGCCTGC
 AATTGGAGCATGGACAACATAATATGAGGGCAAACATCGGGTAAACCAAGAACCAGGACGGGT
 GCAAAGACATAATCTTTTTTAGGTACATTACAATGCTGGATACAAGTAAAGGTGATTTTGCTT

Fig. 9A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

ACTTTTTTTTTTTGATTTTTTTTGCTTCAAATTAAGATTAATCAACAACCCCACTTTTCCCAG
 CAACCAACAAAGTGAAATTCATTTCTAATCAATGTTTTAACCCATTTCTGAGTGCAAAGAC
 ATGATCTTTTTGAGGTACATACAAAAGATTAAGCAAGAACATTAAAACAAAGGTTAATTTTCA
 TGATTGAGTGTTAAGAGTAATCAAAAATCCCAACTAGTCCTTCTAATCCTTGAAGTACTCCC
 AATTTTTTCCCAACAAACGAATAAAGTGAAGAACCATTTCCAATTATTTTGCTGATCCATTTT
 TGGGTGCAAAAACATCATCTTTTTTAGGTACATTCCAATCATGGG
 CGGAGTTAGAAACCCAATTACCAATAGTTTTTGCTCAAATAGCTACAACAACCTTACCTAGTGT
 AATCTCACGAATGGGGTTTTGGGGCCCCCTACCTTGGGAGGCTTTTGCTCAGATTGTGTATTTAT
 GCTAAGAAATTCACATACATTATGTTTTAAACTCAAATATTTGGTCGTTCTAAAATCATGGC
 TCTCTAATTCCAATGCCGGATACAAGGGTGACTGACTGCTTCTTTTTTCTTTCTTTTTAATG
 TTCTTGCTTAAACTAAACTAATCAACATCCCCAAAAGACCCCAACTAGTCCTTTCTGTTTC
 TTGAACCACACCCAGTTTTCCCAACCCCAAACAAAGTGAAAATCCATTACCTTGGTGCAAAA
 ACATGACTTTTTTGGAGGTACAGTCCAATACTTGGATAAAAGTAAAGGTGTTTGTCTTTTTTC
 CCAATGTTATGCTTAAAGTTAAGATTAATCAACATCCTCAATCACTCCAAACATTTTCTTGAT
 TCAAAGACATTATCTTTGTGATCTACATACAAGTAAAGGTGATTGCTTTTTCAATGTTCTTGC
 TCAAATCATAAATTAATCAACATCCCCAATTAGTCCTCCAGTTTTTGAAGTACACCCAATT
 TTCCCAACAAACCAACAAAGTGAAAATCCATTCCCAACCATTTTCTTGTTTCAAAGACATGA
 TCTTTTTTACTTTTAGTTACATCCCAAGTAAAGATAATTGATTTTTCAACATCCCCAATCAGT
 CCTCCAGTTTCTTAGCCTACACCCATTTCCCCCACCAACCAACAAAAGTGAAAATCCATTT
 CTTGGTGCAAAAACATGATCTTTTTGAGGTAAATAAACAAGAAACAAGAAGAAGAGAGGTAC
 CTGAGTAATTCAGTTTCATTAGATGAGAAATTGTAGTCAATGGTCCAAAGCCTTAAGTAAACA
 GCTAAACCCATCACCATAACAAGACCAAGTCCCAAAAATATTTGCTTCTTCTCCTCCCATC
 TTCTCCTTCTTTCTCCCAACCTCTGCATTTGCTGATTTCTAGGTTTCTCAAAAAAAAAAAAA
 ACTTAAGTACTGTCTGTAATTTGGGATTAATGATGGTAATTGGTTTAATTTTTTGACTTAAATA
 AGATATTAAGGTAATGGTAATTGATTGGTCAATTTCTTTCGAAAGAAAAATTTCAAAAATTAA
 ATTATGTTATATTAATTTAATATTTTAAACAGAAAATTTAGATATTCAAAAACGATATGAAAA
 GTATTATAAATTGTAATTTTTTGATATTATAAAATATTAATCAAACCTTCTTATCATTTAACT
 TTAAAAAAGAAATAATGACAATATAAAGCGGAAGAGTGAGTAATTTTCTAGTTTTATGCAACA
 TTTTTTTTTTAGTTTTTACTTTATTTTATAAAAGATTTTGTATTATTTATATAATGATAAAGA
 AAAGATTTTTTTTTTTAATTCTGATATTAAAAAGGGCAAGAGATTTTCATATCCTCGATATTA
 TTTATACGGTGTGAAGTAATATATTTAATTTTTTTTTTATGAAA

Fig. 9B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

MFSWCIEHQKKLKLNCINTVYKLCISHVKGVKEGKKRKINEKTSNVHLLQQVHFLLNASST
ILLQQLNLHERPQVKRLANEVQLHCSDSIKMLLPLCRILLEDLTCSKFQLNLHGSPITP

Fig. 10A

MGLAVYLRRLWTIDYNFSSNETELLRRQFDLASREAMDESAVWRKRYDDEEKISSACQKELIKF
VGKKNTIKVDVRALATYS DHAE

Fig. 10B